

ABSTRACT OF THE DISCLOSURE

A chemical compound is disclosed herein for performing a complex enzymatic neutralization and fixation of formaldehyde, providing a method for instantaneous neutralization of formaldehyde vapors and offering a complete and rapid control of incidental releases, and a complete protection of workers against airborne formaldehyde during the course of their work.

The compound includes alkanolamine, for instantaneous reaction with formaldehyde, and for absorbing hydrogen sulfide and carbon dioxide from the air, and a human protein, which reacts with airborne formaldehyde and forms the major enzyme involved in formaldehyde oxidation in oral mucosa. The compound also contains cyclodextrins for inclusion complexation of all the components of spent and/or unused aqueous formaldehyde solutions.